

Listing of Claims:

1. (Currently amended) A substantially formaldehyde-free duct liner comprising:
a fiber component; [[and]]
a non-liquid substantially formaldehyde-free binder bonding at least a portion of said fiber component together, wherein said duct liner is flexible and acoustically insulating and has a substantially uniform density of about 16 -56 kg/m³ (1-3.5 lb/ft³) throughout its volume, wherein said non-liquid substantially formaldehyde-free binder is about 10 to 30 wt. % of the duct liner and having a thickness of at least about 0.5 inches; and
a facing bonded to at least one of the two sides of the duct liner, said facing containing non-woven randomly oriented inorganic, natural, or synthetic fibers treated with a water resistant additive,
wherein said facing layer is bonded to said fiber component of said duct liner by at least a portion of said non-liquid substantially formaldehyde-free binder.
2. (Original) The duct liner of claim 1, wherein said non-liquid substantially formaldehyde-free binder is substantially the only binder in said duct liner.
3. (Original) The duct liner of claim 1, wherein said fiber component comprises virgin textile glass fibers.
4. (Original) The duct liner of claim 1, wherein said fiber component comprises virgin textile glass fibers, virgin rotary glass fibers, wood fibers, hemp fibers, cellulose fibers or a combination thereof.
5. (Original) The duct liner of claim 3, wherein said textile glass fibers have an average fiber diameter of about 1 to 20 micrometers.
6. (Original) The duct liner of claim 3, wherein said textile glass fibers have an average fiber diameter of about 5 to 16 micrometers.

7. (Original) The duct liner of claim 3, wherein said textile glass fibers have an average fiber length of about 1 to 20 cm.

8. (Currently amended) The duct liner of claim ~~[[1]]~~ 3, wherein said textile glass fibers have an average fiber length of about 2.5 to 12.5 cm.

9.-11. (Canceled)

12. (Original) The duct liner of claim 1, wherein said non-liquid substantially formaldehyde-free binder comprises plastic-containing bonding fibers, wherein said fiber component and said plastic-containing bonding fibers being uniformly blended and bonded together by a portion of the plastic of said plastic-containing bonding fibers.

13. (Original) The duct liner of claim 12, wherein said plastic-containing bonding fibers comprise bi-component polymeric fibers.

14. (Original) The duct liner of claim 12, wherein said plastic-containing bonding fibers comprise mono-component polymeric fibers.

15. (Original) The duct liner of claim 12, wherein said plastic-containing bonding fibers comprise plastic coated mineral fibers.

16. (Original) The duct liner of claim 1, wherein said non-liquid substantially formaldehyde-free binder comprises a thermoplastic or thermosetting powder binder.

17. (Canceled)

18. (Original) The duct liner of claim 1, wherein said duct liner has a density of about 24 to 48 kg/m³.

19. (Original) The duct liner of claim 1, wherein said duct liner has a gram weight of about 50 to 350 gm/m².

20. (Original) The duct liner of claim 1, wherein said duct liner has a gram weight of about 65 to 310 gm/m².

21. (Canceled)

22. (Currently amended) The duct liner of claim [[21]] 1, wherein said inorganic fibers forming the facing layer are glass fibers ~~facing layer is a non-woven scrim sheet of randomly oriented natural or synthetic fibers.~~

23. (Original) The duct liner of claim 22, wherein said non-woven scrim is made from fibers of glass, polyolefin, polyamide, polyester or rayon.

24. (Currently amended) The duct liner of claim [[21]] 1, wherein at least ~~one of said duct liner~~ and said facing layer is treated with a water resistant additive made of epoxy foam, acrylic or asphalt.

25. (Currently amended) The duct liner of claim [[21]] 1, wherein at least ~~one of said duct liner~~ and said facing layer is treated with an anti-microbial agent.

26. (Original) The duct liner of claim 13, wherein said bi-component polymeric fibers comprise:

a core material; and

a sheath material,

wherein said sheath material has a melting point temperature that is lower than the melting point temperature of said core material.

27. (Original) The duct liner of claim 26, wherein said bi-component polymer fibers are made from a thermoplastic or thermosetting polymer.

28. (Original) The duct liner of claim 27, wherein said sheath and said core materials are made of a thermoplastic or thermosetting polymer formulated to have different melting points for the sheath and the core.

29. (Original) The duct liner of claim 26, wherein said core material is mineral and said sheath material is a thermoplastic or thermosetting polymer.

30. (Original) The duct liner of claim 1, wherein said at least one non-liquid substantially formaldehyde-free binder is a mixture of plastic-containing bonding fibers and at least one substantially formaldehyde-free powder binder.

31. (Original) The duct liner of claim 30, wherein said plastic-containing bonding fiber comprises about 20 to 100 wt. % of said non-liquid substantially formaldehyde-free binder.

32 - 89. (Canceled)